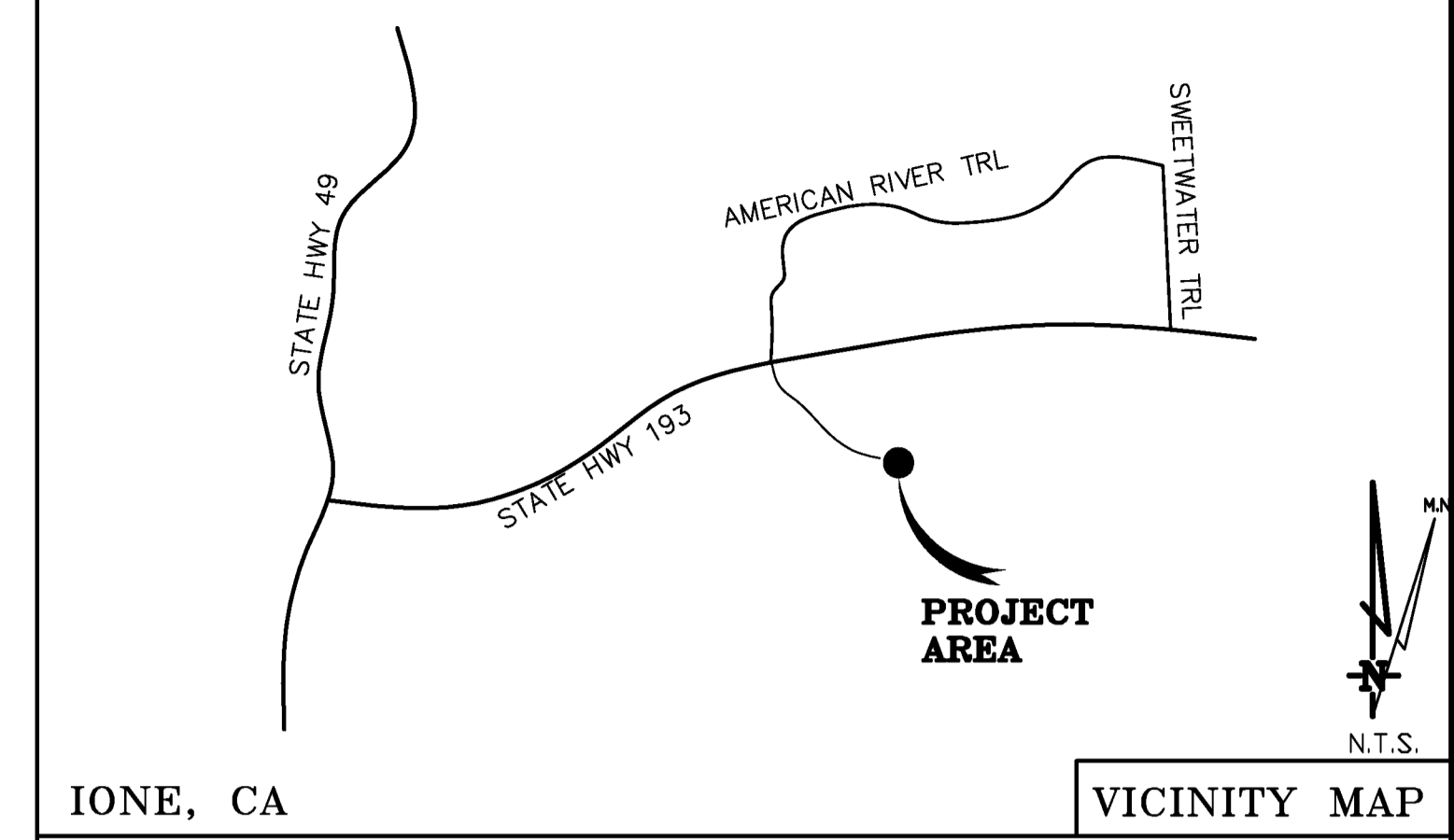


DATE OF SURVEY: 04-28-17
 SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, R.C.E. 14803
 LOCATED IN THE COUNTY OF EL DORADO, STATE OF CALIFORNIA
 BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.
 ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL.
 N.G.V.D. 1929 CORRECTION: SUBTRACT 2.68' FROM ELEVATIONS SHOWN.
 CONTOUR INTERVAL: 1 FT.
 CONTRACTOR IS RESPONSIBLE TO VERIFY LEASE AREA PRIOR TO CONSTRUCTION.
 ASSESSOR'S PARCEL NUMBER: 071-032-15-100

A.T. & T. Mobility
 Project No./Name: CVL03175 / PILOT HILL 2
 Project Site Location: 3100 Triple Seven Road
 Cool, CA 95614
 El Dorado County
 Date of Observation: 04-28-17
 Equipment/Procedure Used to Obtain Coordinates: Trimble Geo XT post processed with Pathfinder Office software.
 Type of Antenna Mount: Proposed Monopine Tower
 Coordinates (Center Lease Area)
 Latitude: N 38°53'23.38" (NAD83) N 38°53'23.74" (NAD27)
 Longitude: W 120°59'51.29" (NAD83) W 120°59'47.49" (NAD27)
 ELEVATION of Ground at Structure (NAVD88) 1621' AMSL

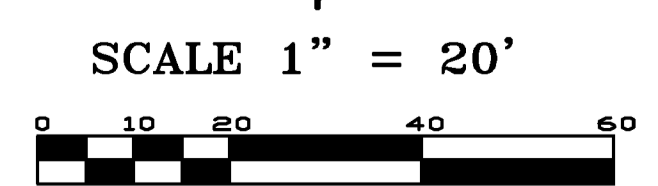
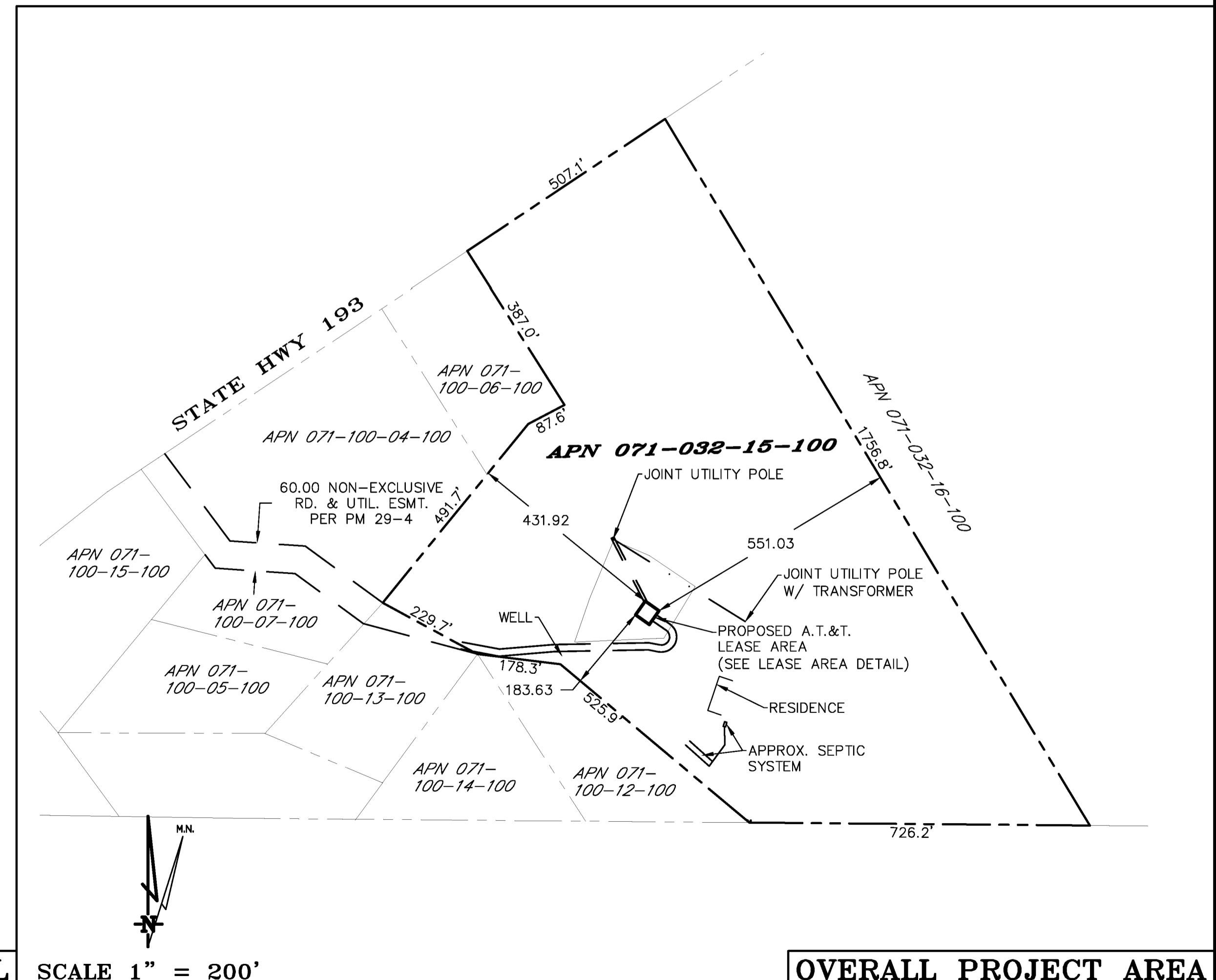
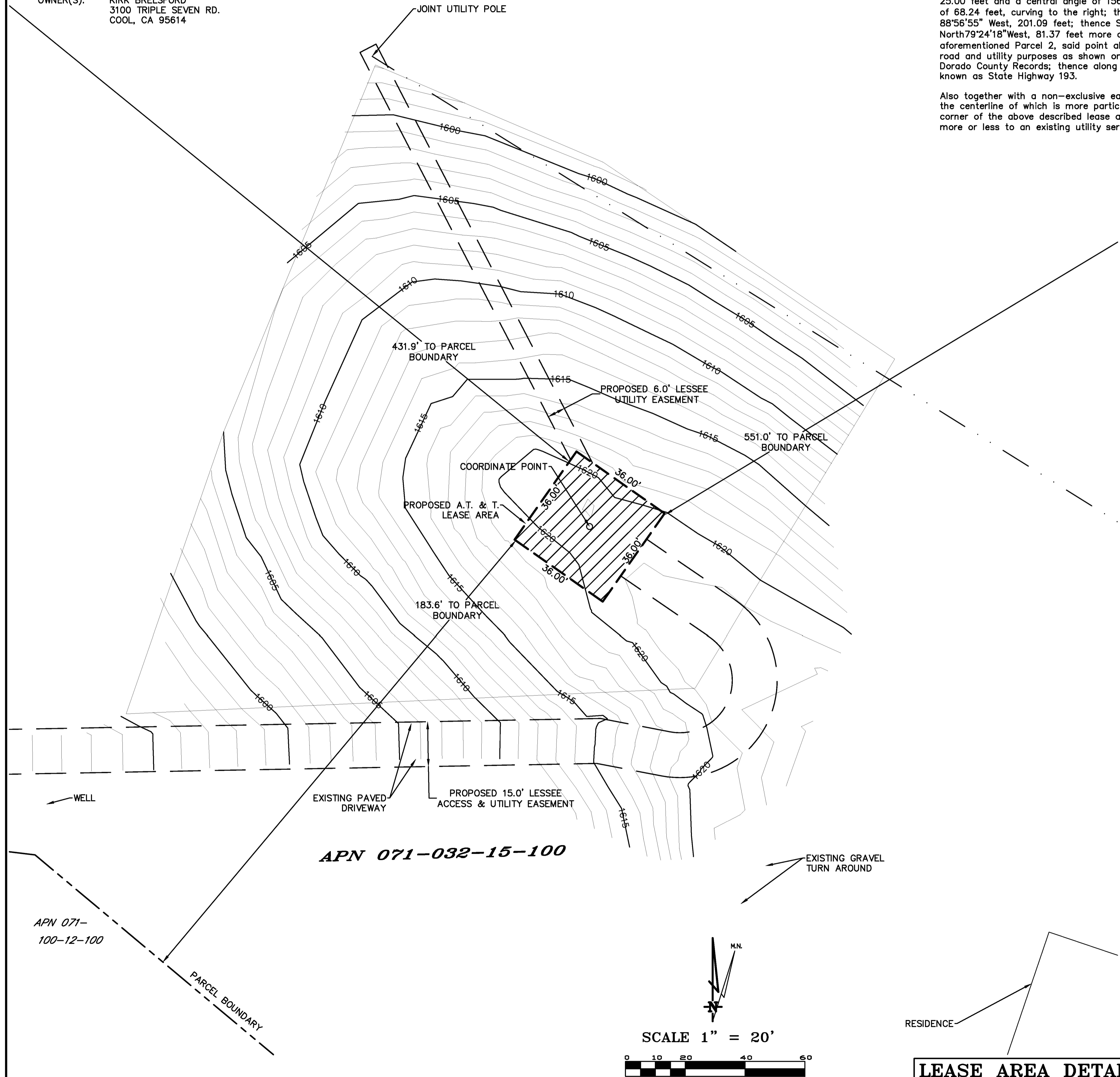
Lease Area Description
 All that certain lease area being a portion of Parcel "2" as is shown on that certain Parcel Map, filed for record in Book 9 of Parcel Maps, Page 98, El Dorado County Records, located in the County of El Dorado, State of California, and being a portion of the South 1/2 of Section 9, Township 12 N., Range 9 E., M.D.B. & M, and being more particularly described as follows:
 Commencing at the Southwest corner of the aforementioned Parcel 2; thence along the southwesterly boundary thereof North 50°02'12" West, 434.70 feet; thence leaving said Southwesterly boundary North 39°57'48" East, 186.68 feet to the True Point of Beginning; thence from said point of beginning North 54°53'37" West, 36.00 feet; thence North 35°06'23" East, 36.00 feet; thence South 54°53'37" East, 36.00 feet; thence South 35°06'23" West, 36.00 feet to the point of beginning.
 Together with a non-exclusive easement for access and utility purposes, purposes fifteen feet in width, the centerline of which is more particularly described as follows: Beginning at a point which bears South 35°06'23" West, 18.00 feet from the East most corner of the above described lease area; thence from said point of beginning South 55°32'41" East, 35.93 feet to the point of curvature of a tangent curve, concave to the northwest, having a radius of 25.00 feet and a central angle of 156°23'38"; thence Southeast along said curve, a distance of 68.24 feet, curving to the right; thence North 79°09'03" West, 22.87 feet; thence South 88°56'55" West, 201.09 feet; thence South 85°14'30" West, 118.17 feet; thence North 79°24'18" West, 81.37 feet more or less to the Southwesterly boundary of the aforementioned Parcel 2, said point also being the beginning of an existing 60' easement for road and utility purposes as shown on the plat filed in Book 29 of Parcel Maps, Page 4 El Dorado County Records; thence along said easement to the public right of way commonly known as State Highway 193.
 Also together with a non-exclusive easement for utility purposes, purposes six feet in width, the centerline of which is more particularly described as follows: Beginning at the North most corner of the above described lease area and running thence North 27°20'51" West 150.0 feet more or less to an existing utility service connection location.



THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF GEIL ENGINEERING AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE AND CARRIER FOR WHICH THEY ARE PREPARED. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED EXCEPT BY WRITTEN PERMISSION FROM GEIL ENGINEERING. TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN WITH GEIL ENGINEERING WITHOUT PREJUDICE AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.
 BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. NO EASEMENTS WERE RESEARCHED OR PLOTTED. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED. NO PROPERTY MONUMENTS WERE SET.

DEPT	APPROVED	DATE
ARC		
RE		
INT		
EE\IN		
OPS		
EE\OUT		

Surveyor
GEIL ENGINEERING
 ENGINEERING • SURVEYING • PLANNING
 1526 HIGLE STREET
 AUBURN, CALIFORNIA 95603
 Phone: (530) 888-1000
 Fax: (530) 888-1006



LEASE AREA DETAIL

SCALE 1" = 200'

OVERALL PROJECT AREA

at&t
 MOBILITY

CVL03175 Pilot Hill
 3100 Triple Seven Road
 Cool, CA 95614
 PILOT PLAN AND
 SITE TOPOGRAPHY

REVISIONS	REV	DATE	DESCRIPTION
04-29-17			Preliminary Drawing

Sheet
C-1

PROPRIETARY INFORMATION
 THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO PEEK SITE-COM IS STRICTLY PROHIBITED

CLIENT:



5001 EXECUTIVE PKWY
 SAN RAMON, CA 94583

PROJECT INFORMATION:

PILOT HILL 2

3100 TRIPLE SEVEN RD
 COOL, CA 95614

REV: = DATE: = DESCRIPTION: = BY: =

REV	DATE	DESCRIPTION	BY
1	6-19-17	90% ZONING DOC'S	RB
2	8-14-17	100% ZONING DOC'S	RB

COORDINATING ENGINEER:

Peek Site-Com

12852 Earhart Ave. Suite 101
 Auburn, California 95602
 Phone (530) 885-6160

E-Mail info@peeksitecom.com

SEAL:



SITE #: _____ CHK.: _____ DRAWN BY: _____

CVL03175 ... RB

SHEET TITLE:

EQUIPMENT PLAN

SHEET NUMBER: _____ REVISION: _____

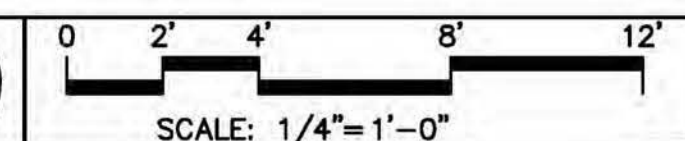
A-2 0



KEY NOTES

1. NEW 6'-8"x6'-8" LIGHTWEIGHT PRE-FAB "MIC" EQUIPMENT SHELTER
2. (1) NEW GPS ANTENNA
3. NEW 200A ELEC. PANEL, PROVIDED WITH SHELTER
4. TELCO BOX, PROVIDED WITH SHELTER
5. NEW D/C POWER PLANT, PROVIDED WITH SHELTER
6. NEW 23" FIF RACK, PROVIDED WITH SHELTER, TYP. OF (2)
7. NEW HEAVY DUTY METAL CABLE TRAY LID W/ CONC. SLEEPERS EVERY 4'
8. NEW MONOPINE
9. NEW 500 GAL LP PROPANE TANK ON NEW CONC. SLAB
10. NEW 35 KW GENERAC BACK-UP GENERATOR
11. NEW 6'-0" CHAIN LINK FENCE W/ VINYL SLATS
12. NEW 8' WIDE DOUBLE ACCESS GATE
13. NEW GRAVEL ROAD
14. NEW U/G POWER AND TELCO CONDUITS
15. NEW CAMLOCK GENERATOR INTERFACE
16. NEW TRAFFIC RATED 24"x36" CONC. SPLICE BOX FOR FIBER
17. NEW TRAFFIC RATED P-38 CONC. SPLICE BOX FOR POWER
18. NEW UTILITY RACK
19. NEW 2A:20BC RATED FIRE EXTINGUISHER IN WEATHER RESISTANT CABINET
20. 24" MAX BRANCH DIAMETER AT BASE OF POLE
21. NEW HVAC, PROVIDED WITH SHELTER
22. NEW OUTDOOR LIGHTS PROVIDED WITH SHELTER, W/ TIMER AND MOTION SENSOR
23. NEW CELL BLOCK FOUNDATION
24. NEW AT&T 36"x36" LEASE AREA
25. NEW FIRE DEPT. KNOX BOX
26. NEW CARRIER CONTACT SIGNAGE AT GATE
27. NEW CIENA WITHIN FIF RACK
28. NEW 200A METER MAIN
29. NEW SOUND BLANKET BBC-13X, 1.2 LBS. PSF MIN. OR EQUAL SOUND BLANKET AT INTERIOR SIDE OF FENCE

EQUIPMENT PLAN



1

RF SCHEDULE

SECTOR/POS.	ANTENNA MODEL	RAD CENTER	PHYSICAL AZIMUTH	RRU	TMA	FIBER LENGTH	COAX LENGTH	COAX DIA.	NO.
A/1	QS6656-3	± 110'	90°	(1) RRUS-11 & (1) RRUS-32 B2	N/A	± 160'	± N/A	N/A	-
A/2	QS6658-3	± 110'	90°	(1) RRUS-11, (1) RRUS-12 & (1) RRUS-32 B66	N/A	± 160'	± N/A	N/A	-
A/3	HBSA-M65R-KU-H6	± 100'	90°	(1) RRUS-32 B30	N/A	± 170'	± N/A	N/A	-
A/4	HBSA-M65R-KU-H6	± 100'	90°	(1) RRUS-32 B30	N/A	± 170'	± N/A	N/A	-
B/1	QS6656-3	± 110'	330°	(1) RRUS-11 & (1) RRUS-32 B2	N/A	± 160'	± N/A	N/A	-
B/2	QS6658-3	± 110'	330°	(1) RRUS-12 & (1) RRUS-32 B66	N/A	± 160'	± N/A	N/A	-
B/3	HBSA-M65R-KU-H6	± 100'	330°	(1) RRUS-11	N/A	± 170'	± N/A	N/A	-
B/4	HBSA-M65R-KU-H6	± 100'	330°	(1) RRUS-32 B30	N/A	± 170'	± N/A	N/A	-
C/1	QS6656-3	± 110'	210°	(1) RRUS-11 & (1) RRUS-32 B2	N/A	± 160'	± N/A	N/A	-
C/2	QS6658-3	± 110'	210°	(1) RRUS-12 & (1) RRUS-32 B66	N/A	± 160'	± N/A	N/A	-
C/3	HBSA-M65R-KU-H6	± 100'	210°	(1) RRUS-11	N/A	± 170'	± N/A	N/A	-
C/4	HBSA-M65R-KU-H6	± 100'	210°	(1) RRUS-32 B30	N/A	± 170'	± N/A	N/A	-

RF SCHEDULE

SCALE: N.T.S. 1

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO PEEK SITE-COM IS STRICTLY PROHIBITED

CLIENT:



5001 EXECUTIVE PKWY
SAN RAMON, CA 94583

PROJECT INFORMATION:

PILOT HILL 2

3100 TRIPLE SEVEN RD
COOL, CA 95614

REV: DATE: DESCRIPTION: BY:

1	6-19-17	90% ZONING DOC'S	RB
2	8-14-17	100% ZONING DOC'S	RB

COORDINATING ENGINEER:

Peek Site-Com

12852 Earhart Ave. Suite 101
Auburn, California 95602
Phone (530) 885-6160

E-Mail info@peeksitecom.com

SEAL:



SITE #: CHK.: DRAWN BY:

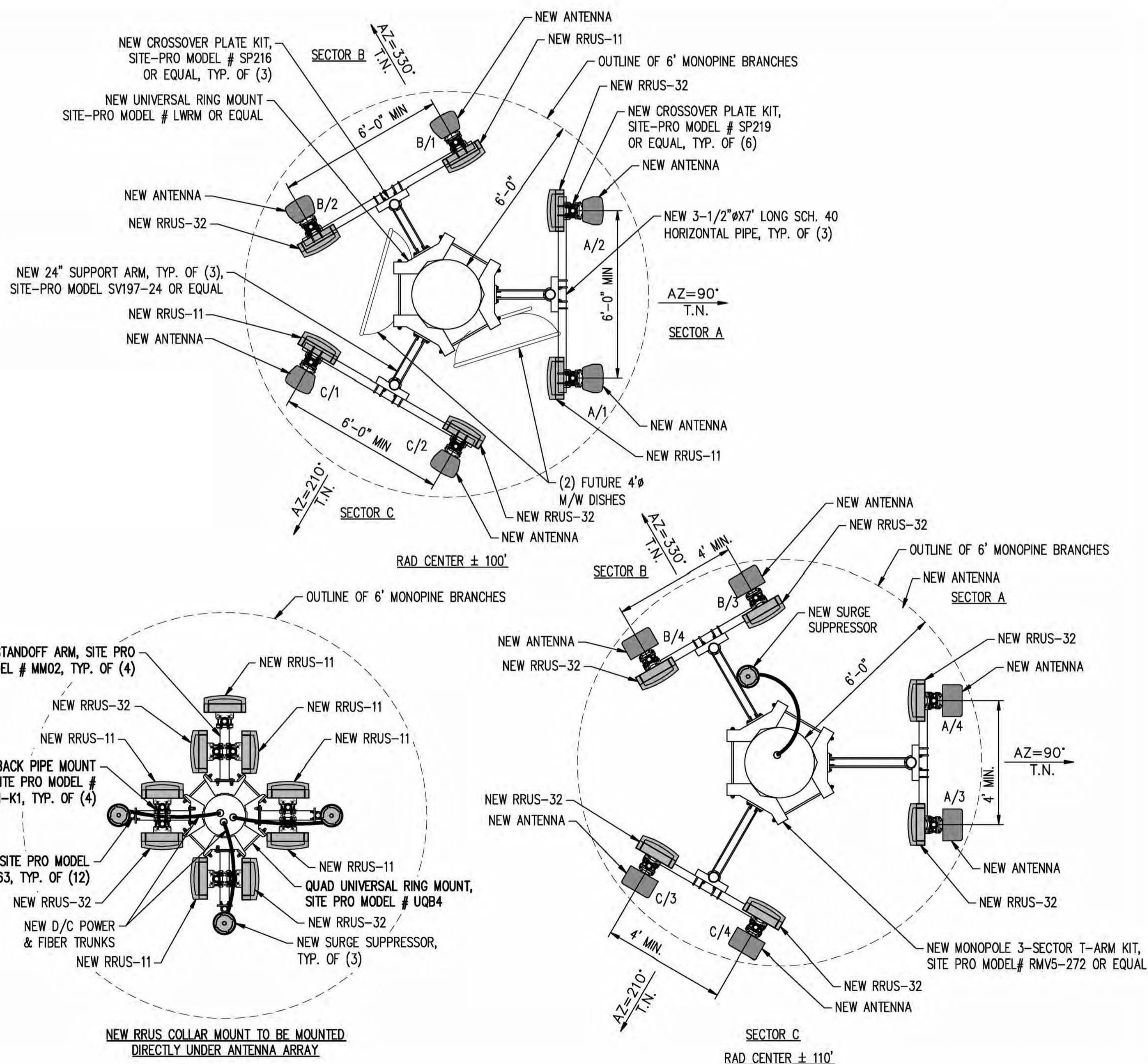
CVL03175 ... RB

SHEET TITLE:

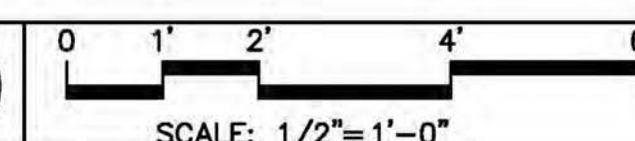
ANTENNA PLAN

SHEET NUMBER: REVISION:

A-3 0



ANTENNA PLAN



2

PROPRIETARY INFORMATION
 THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO PEEK SITE-COM IS STRICTLY PROHIBITED

CLIENT:



5001 EXECUTIVE PKWY
 SAN RAMON, CA 94583

PROJECT INFORMATION:

PILOT HILL 2

3100 TRIPLE SEVEN RD
 COOL, CA 95614

REV: DATE: DESCRIPTION: BY:

1	6-19-17	90% ZONING DOC'S	RB
2	8-14-17	100% ZONING DOC'S	RB

COORDINATING ENGINEER:

Peek Site-Com
 12852 Earhart Ave. Suite 101
 Auburn, California 95602
 Phone (530) 885-6160
 E-Mail info@peeksitecom.com

SEAL:



SITE #: CHK.: DRAWN BY:

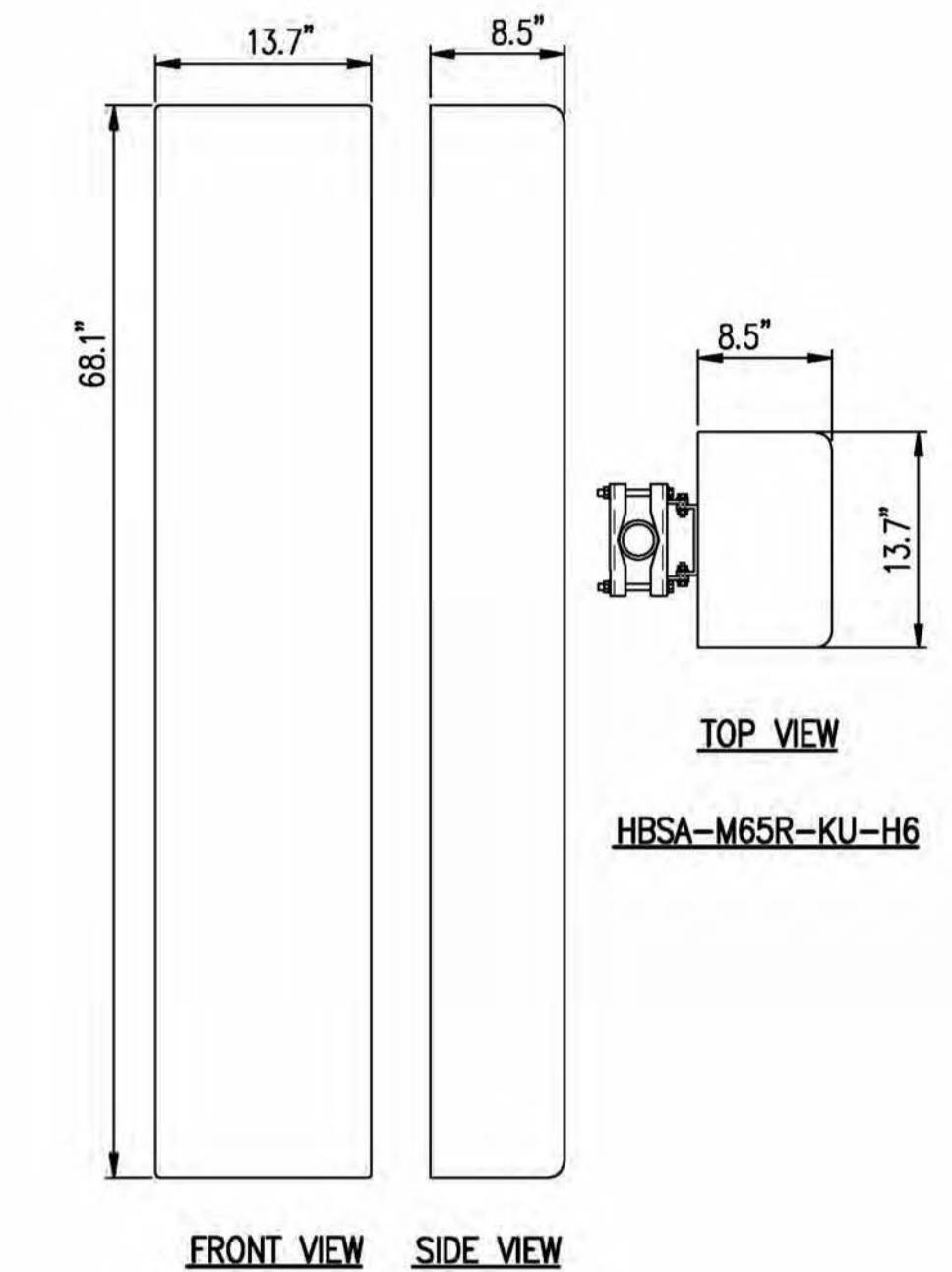
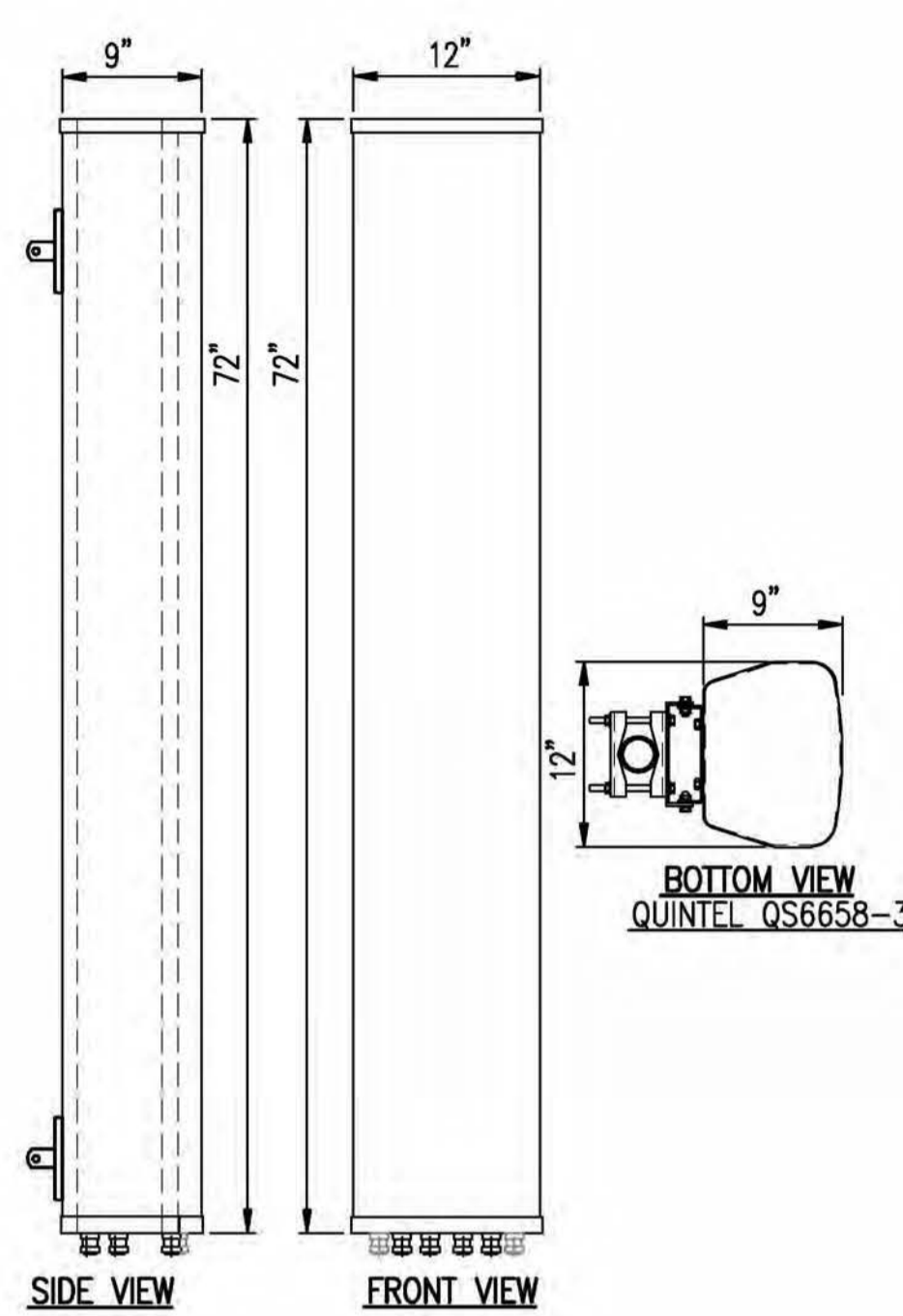
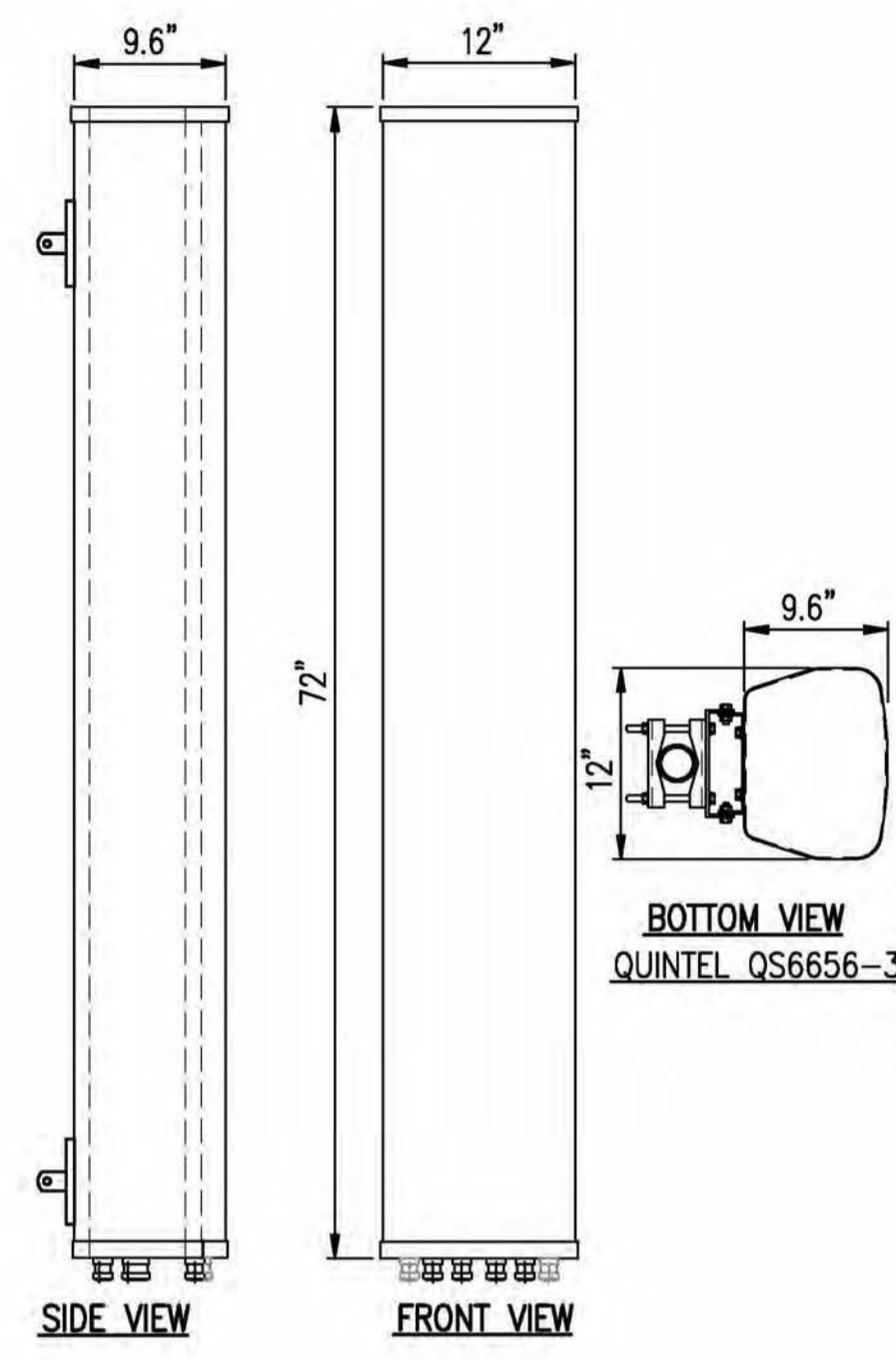
CVL03175 ... RB

SHEET TITLE:

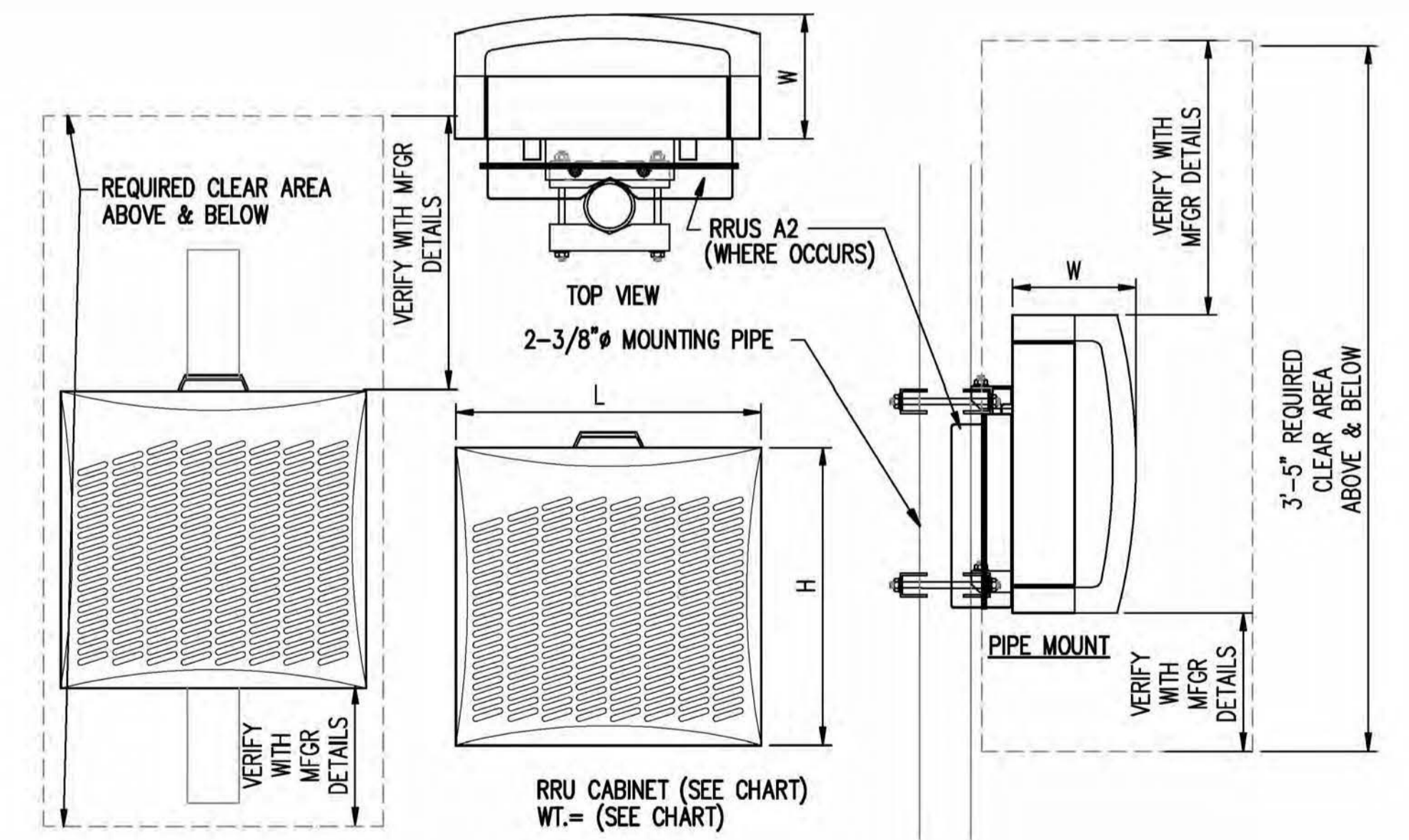
DETAILS

SHEET NUMBER: REVISION:

A-3.1 0



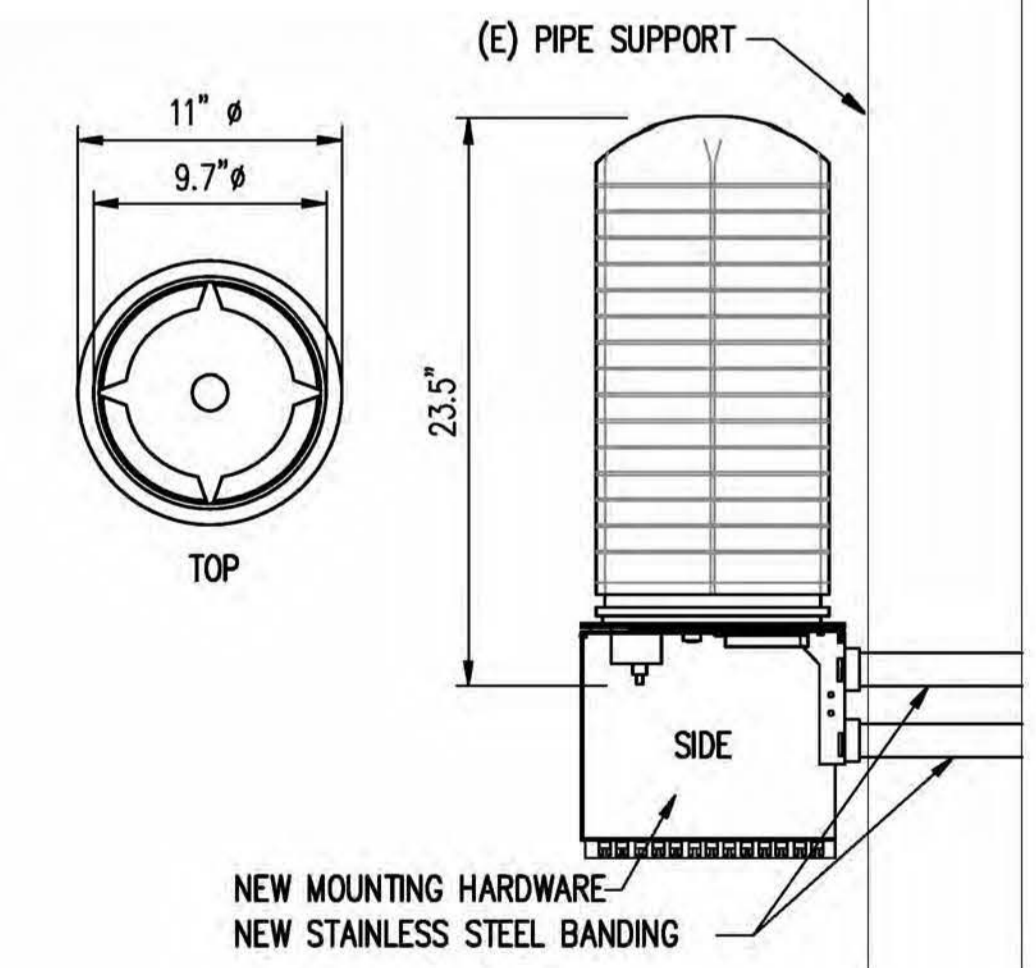
ANTENNA DETAIL SCALE: N.T.S. 1



TYPE	LENGTH	HEIGHT	WIDTH	WEIGHT
RRU-11	17.8"	17.3"	7.19"	50 LBS
RRUS-E2	20.4"	18.5"	7.5"	50 LBS
RRUS-32	29.9"	13.3"	9.5"	60 LBS
RRU-12	20.4"	18.5"	7.5"	50 LBS
A2	12.8"	15"	3.5"	21 LBS

NOTE: SEE RF SHEET FOR RRU PLACEMENT

RRU DETAIL SCALE: N.T.S. 3



SURGE SUPPRESSOR DETAIL SCALE: N.T.S. 2

PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO PEEK SITE-COM IS STRICTLY PROHIBITED

CLIENT:



5001 EXECUTIVE PKWY
SAN RAMON, CA 94583

PROJECT INFORMATION:

PILOT HILL 2

3100 TRIPLE SEVEN RD
COOL, CA 95614

REV: DATE: DESCRIPTION: BY:

REV	DATE	DESCRIPTION	BY
1	6-19-17	90% ZONING DOC'S	RB
2	8-14-17	100% ZONING DOC'S	RB

COORDINATING ENGINEER:

Peek Site-Com

12852 Earhart Ave. Suite 101
Auburn, California 95602
Phone (530) 885-6160

E-Mail info@peeksitecom.com

SEAL:



SITE #: CHK.: DRAWN BY:

CVL03175 ... RB

SHEET TITLE:

ELEVATIONS

SHEET NUMBER: REVISION:

A-4 0

- NOTE:
- BROADLEAF BRANCHES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY AND ARE NOT TO SCALE.
 - TRUNK TO BE PAINTED KELLEY MOOR LOG CABIN BROWN OR EQUAL.
 - ANTENNAS TO BE CONCEALED WITH ANTENNAS SOCKS
 - RRUS TO BE PAINTED BROWN

- TOP OF MONOPINE BRANCHES @ ±120' AGL
- OVERALL HEIGHT OF MONOPINE & TOP OF AT&T ANTENNAS @ ±113' AGL

- AT&T RAD CENTER @ ±110' AGL

- AT&T RAD CENTER @ ±100' AGL

- BOTTOM OF AT&T ANTENNAS @ ±97' AGL

NEW AT&T ANTENNA, TYP. OF (4) PER SECTOR FOR A TOTAL OF (12)

NEW RRU, TYP. OF (18) & (3) FUTURE RRU'S, MOUNTED ON RRU COLLAR MOUNT BELOW ANTENNAS

NEW SURGE SUPPRESSOR, TYP. OF (3) (2) FUTURE 4' M/W DISHES

FUTURE ANTENNAS BY OTHER CARRIERS

- RAD CENTER OF FUTURE MICROWAVE DISH @ ±92'-6" AGL

- RAD CENTER OF FUTURE ANTENNAS BY OTHER CARRIER @ ±85' AGL

- RAD CENTER OF FUTURE ANTENNAS BY OTHER CARRIER @ ±70' AGL

- START OF MONOPINE BRANCHES @ ±22' AGL

- TOP OF CHAIN LINK FENCE @ ±8' AGL

- TOP OF PRE-CAST CELL BLOCK FOUNDATION @ ±2' AGL

- FINISH GRADE @ 0' AGL

NEW MONOPINE
NEW D/C & FIBER TRUNK

NEW LIGHTWEIGHT PRE-FAB SHELTER
NEW 6' CHAIN LINK FENCE W/ PRIVACY SLATS

NEW GRADE (E) GRADE

- TOP OF MONOPINE BRANCHES @ ±120' AGL
- OVERALL HEIGHT OF MONOPINE & TOP OF AT&T ANTENNAS @ ±113' AGL

- AT&T RAD CENTER @ ±110' AGL

- AT&T RAD CENTER @ ±100' AGL

- BOTTOM OF AT&T ANTENNAS @ ±97' AGL

NEW AT&T ANTENNA, TYP. OF (4) PER SECTOR FOR A TOTAL OF (12)

NEW RRU, TYP. OF (18) & (3) FUTURE RRU'S, MOUNTED ON RRU COLLAR MOUNT BELOW ANTENNAS

NEW SURGE SUPPRESSOR, TYP. OF (3) (2) FUTURE 4' M/W DISHES

FUTURE ANTENNAS BY OTHER CARRIERS

- RAD CENTER OF FUTURE MICROWAVE DISH @ ±92'-6" AGL

- RAD CENTER OF FUTURE ANTENNAS BY OTHER CARRIER @ ±85' AGL

- RAD CENTER OF FUTURE ANTENNAS BY OTHER CARRIER @ ±70' AGL

- START OF MONOPINE BRANCHES @ ±20' AGL

- TOP OF CHAIN LINK FENCE @ ±8' AGL

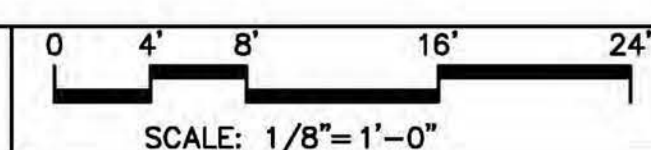
- TOP OF PRE-CAST CELL BLOCK FOUNDATION @ ±2' AGL

- FINISH GRADE @ 0' AGL

NEW MONOPINE
NEW D/C & FIBER TRUNK
NEW LIGHTWEIGHT PRE-FAB SHELTER
NEW GPS ANTENNA
NEW 6' CHAIN LINK FENCE W/ PRIVACY SLATS

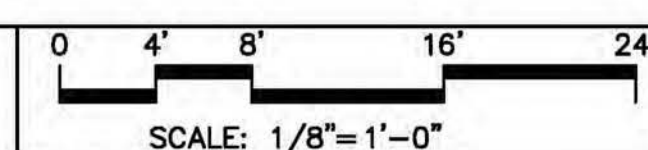
(E) GRADE

SOUTHWEST ELEVATION



2

SOUTHEAST ELEVATION



1

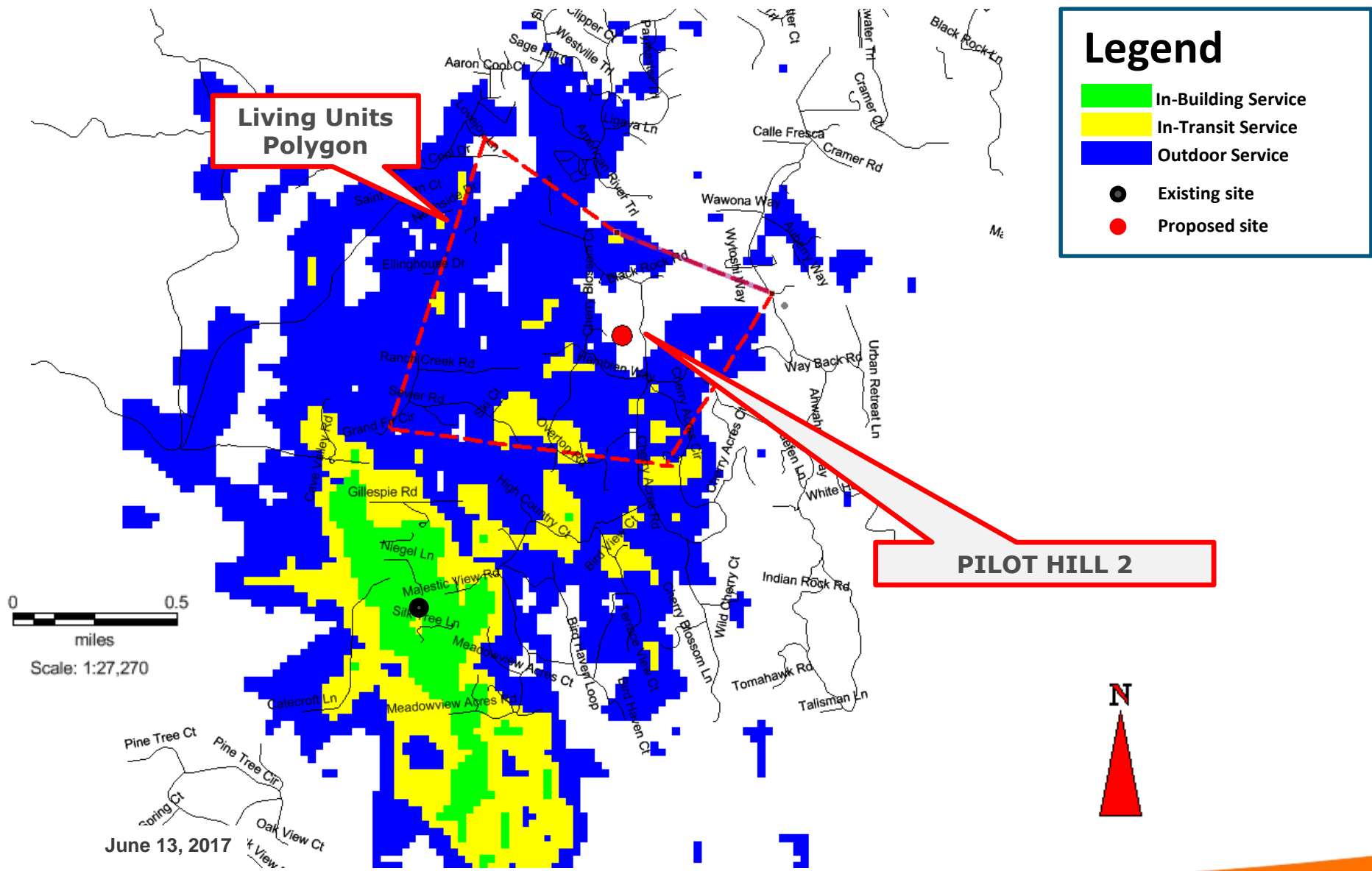
CVL03175 Zoning Propagation Map

June 13, 2017

Attachment 2

Site 1 Cool (formerly Pilot Hill 2) 8-1015 L 14 of 32

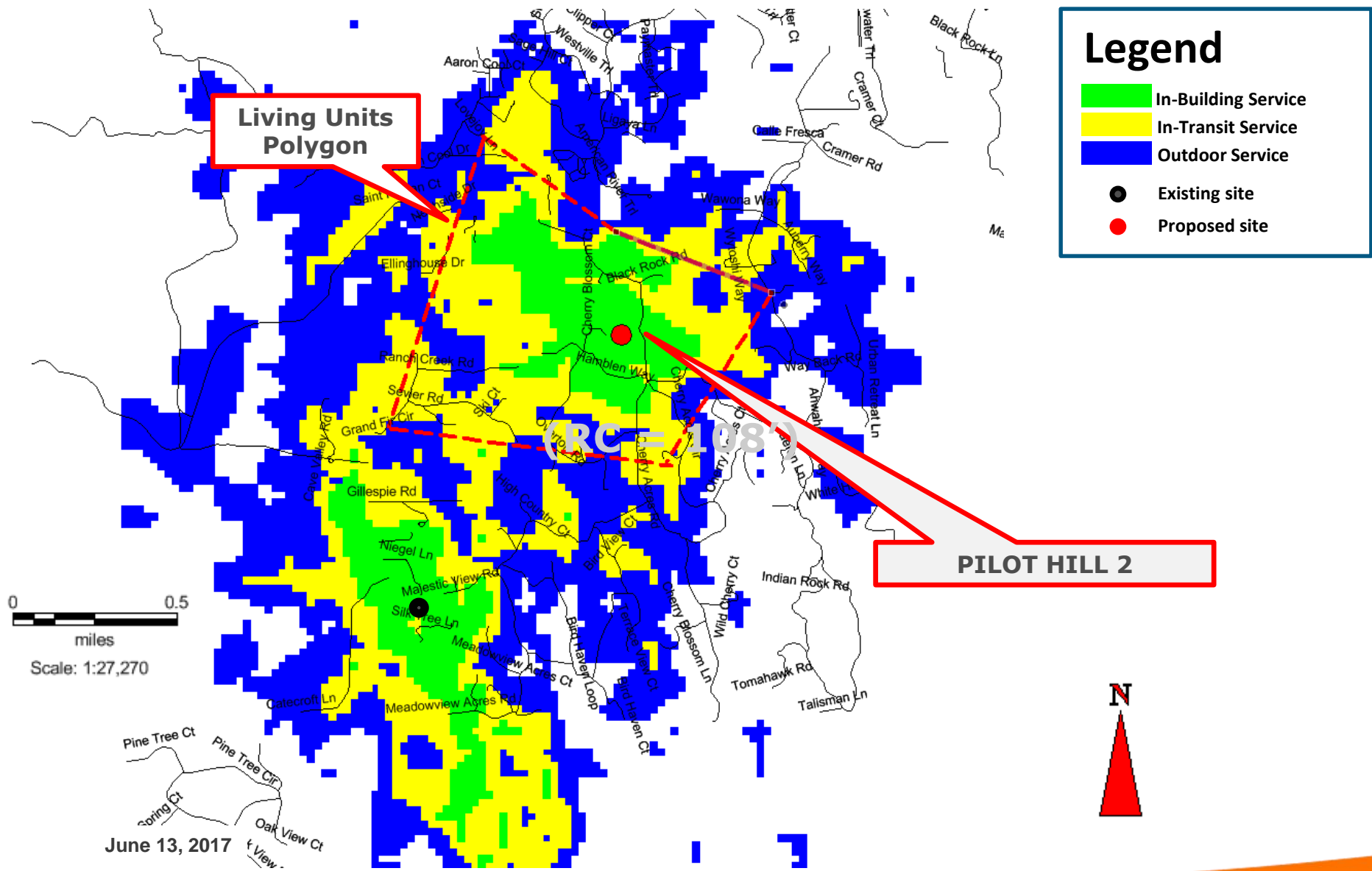
Existing LTE 700 Coverage (RC = 108')



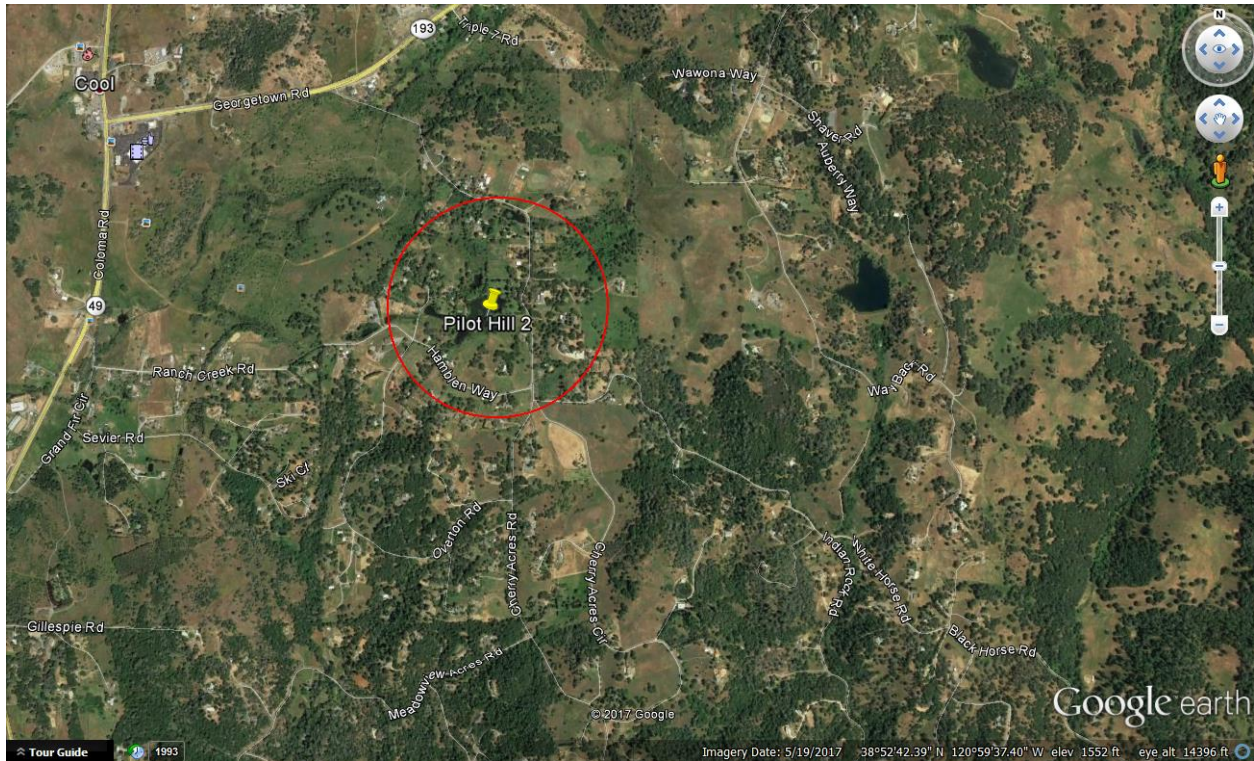
Legend

- In-Building Service
- In-Transit Service
- Outdoor Service
- Existing site
- Proposed site

Proposed LTE 700 Coverage (RC = 108')



Search Ring's Description and Objectives:

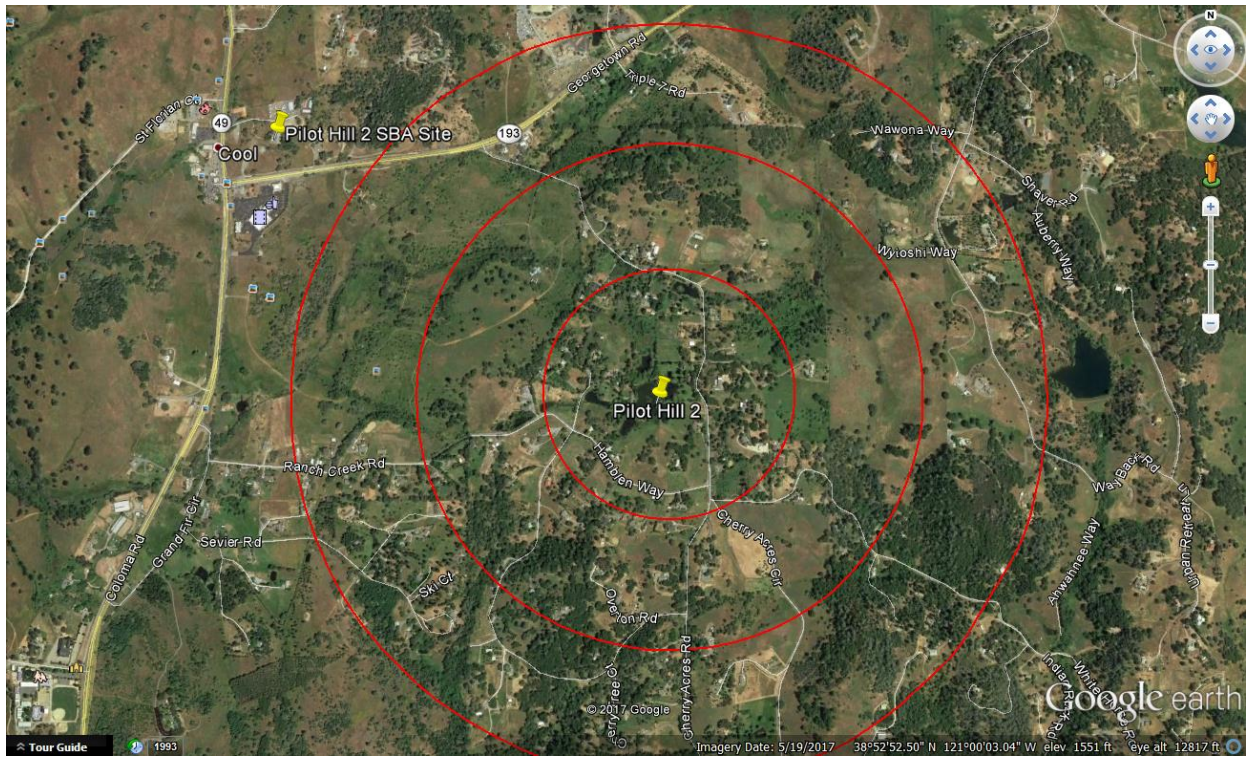


AT&T Mobility is proposing to build and maintain an unmanned wireless telecommunication facility consisting of a 36' x 36', 1,296 square foot enclosed compound (lease area). The compound will include a 120 foot Stealth Monopine tower, one equipment shelter, one 35kw standby propane generator, and one 500 gallon propane tank. This facility will be located at 3100 Triple Seven Road, Cool, within El Dorado County's jurisdiction in a 25.037 acre RE-5 zone. The site is approximately 870 feet south of Knickerbocker Creek and the area consists of oak trees, evergreen trees, and rolling hills with rocky terrain.

AT&T's objective for the Pilot Hill 2 site is to provide wireless hi-speed broadband internet to a minimum of 197 LU's and cellular services to the nearby residences. This site is to provide hi-speed internet and enhanced cellular coverage & capacity to the Cool and Cherry Acres community, surrounding the search ring, which is a relatively dense underserved areas. The site location's elevation is approximately 1,621 feet while the surrounding community's elevation averages around 1,500 feet, giving the homes within the community great potential for line of site to the tower. After running a coverage simulation at the site location, AT&T is anticipating meeting their FCC objective for this search ring by covering approximately 197 homes.

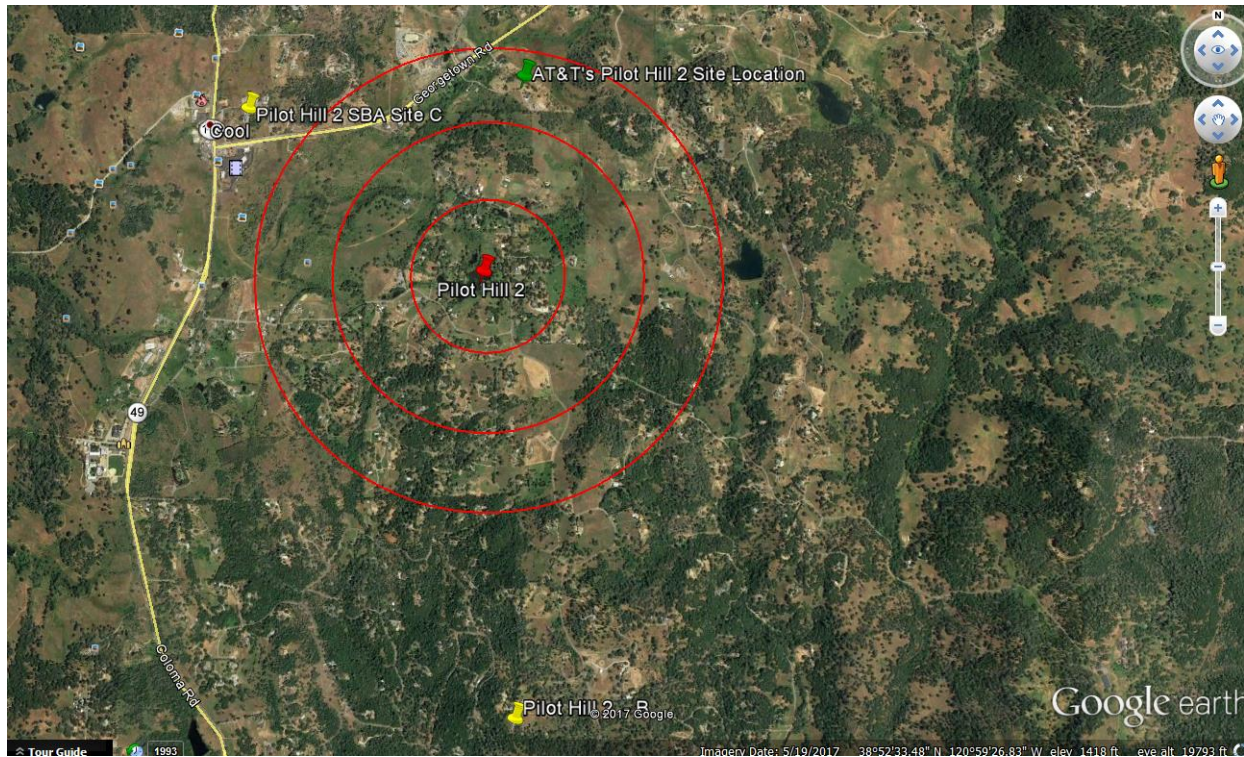
Attachment 3 Site 1 Cool (formerly Pilot Hill 2)

Potential Co-locations:



The nearby SBA Wireless Facility located at 1050 Northside Drive, Cool, was initially considered for a co-location proposal. However, running the coverage simulation at the available antenna height of 40 feet, AT&T discovered that they would lose a considerable amount of living units. This would have also resulted in AT&T failing to meet its FCC mandate for coverage for the Cool Community.

Alternative Site Analysis pursuant to 17.14.210 (B) (1):



Above is a map showing the Search Ring (center is the red pin), Proposed Site (green pin) and the two alternative sites (yellow pins) that were considered for placement of the telecommunications facility. Epic Wireless was forced to search well beyond AT&T's Search Ring due to the restrictions within the Cherry Acres Home Owners Association.

Each Alternative Site is discussed below:

Pilot Hill 2 Alternative Candidate B:

Address: 2225 Terrace View Court, Cool, CA 95614

Latitude/Longitude: 38.860233, -120.997694

Proposal – New Tower



Considerations:

Candidate B is located approximately 1.25 miles south of the center of AT&T's search ring. The proposed tower would be located on a 6 acre, RE-5 zoned property owned by Brian Cummings. The property is located at the end of Terrace View Court and the site was proposed in the center of the property. Candidate B was chosen as AT&T's second preferred candidate as the RF Engineer's simulation yielded fewer LU's than the subject site located at 3100 Triple Seven Road (Subject Parcel).

Pilot Hill 2 Alternative Candidate C:

1050 Northside Drive, Cool, CA 95614

Latitude/Longitude: 38.888289, -121.014101

Proposal – Co-Location



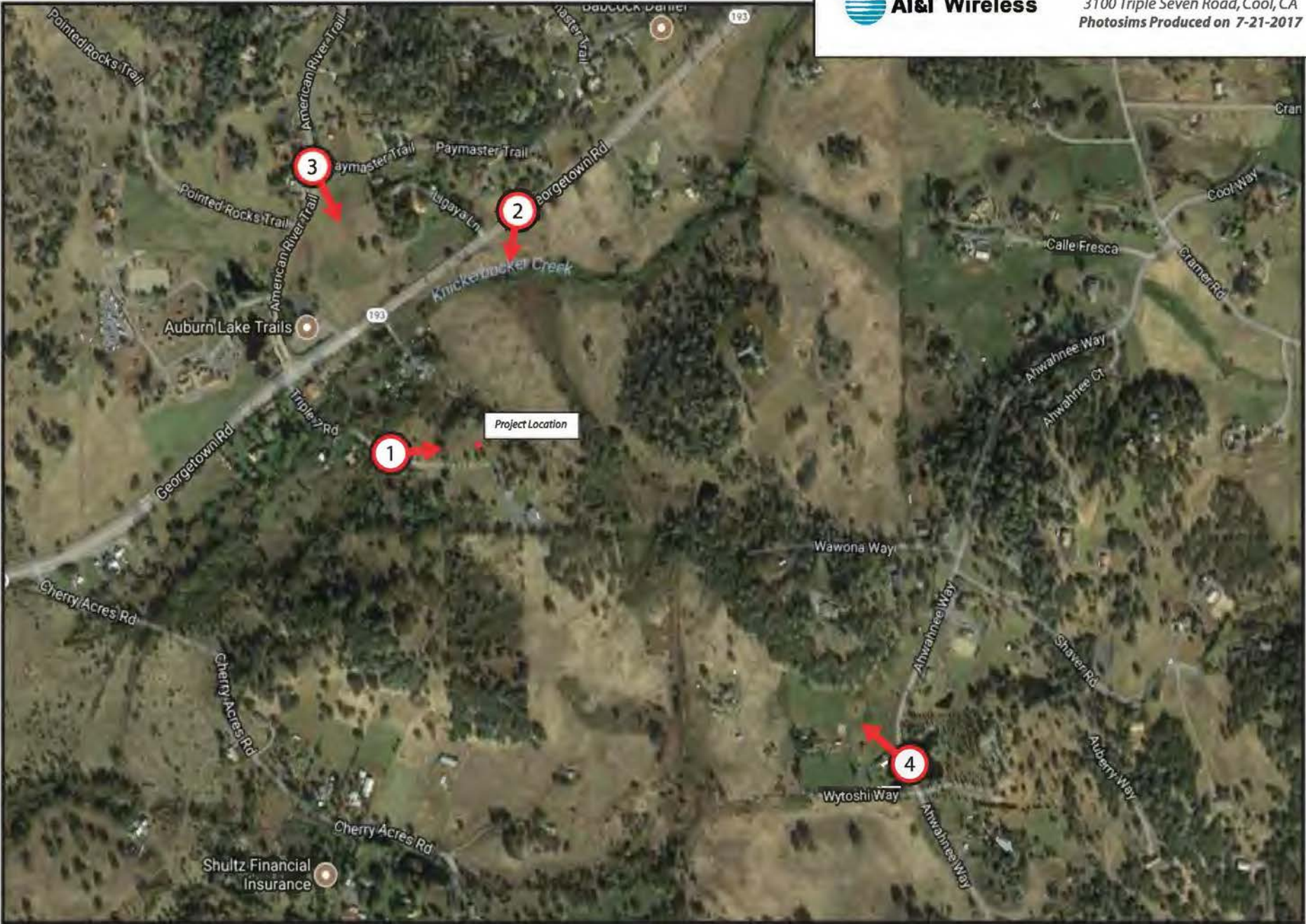
Considerations:

The nearby SBA Wireless Facility located at 1050 Northside Drive, Cool, was initially considered for a co-location proposal. However, running the coverage simulation at the available antenna height of 40 feet, AT&T discovered that they would lose a considerable amount of living units. This would have also resulted in AT&T failing to meet its FCC mandate for coverage for the Cool Community.

Actual View of the Proposed Location:

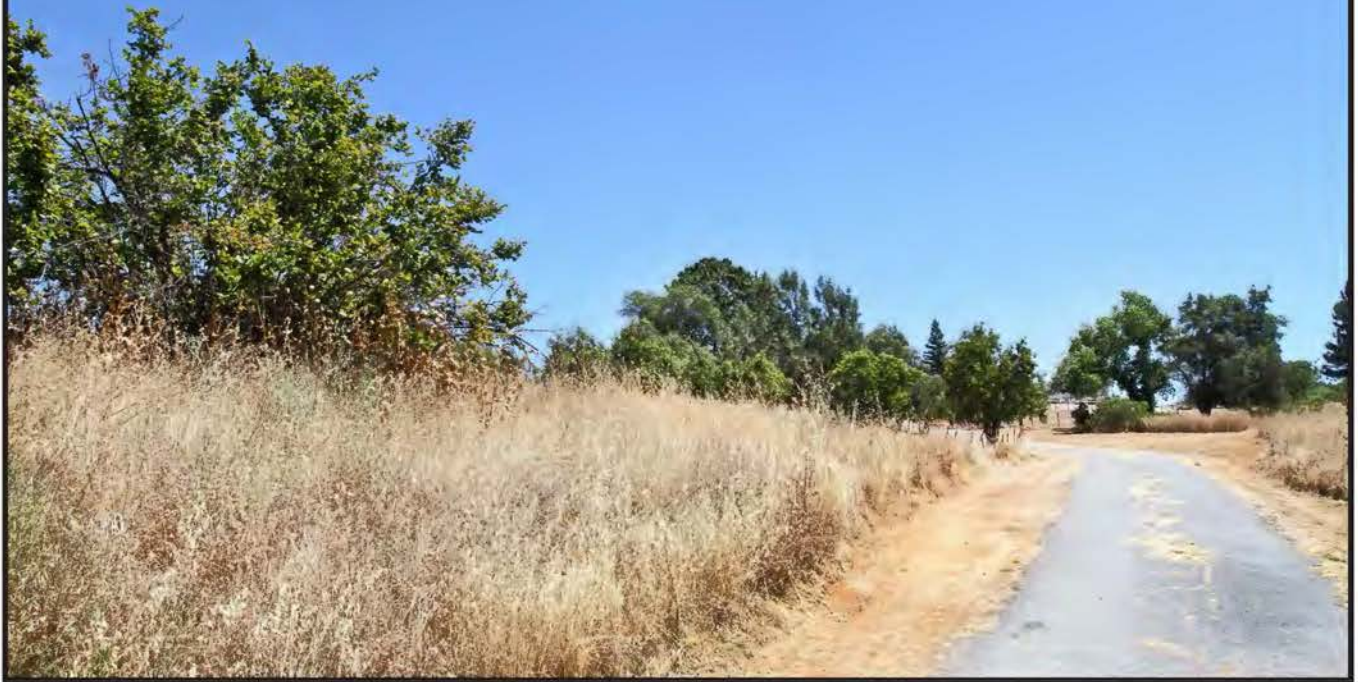
The proposed lease area is located centrally in the subject property. The site will not interfere with the existing use of the property. Access will be directly off of Triple Seven Road. The site is elevated above the surrounding area and has great potential for line of site to the communities down below the subject parcel.





Attachment 4
Site 1 Cool (formerly Pilot Hill 2)

Existing



Proposed



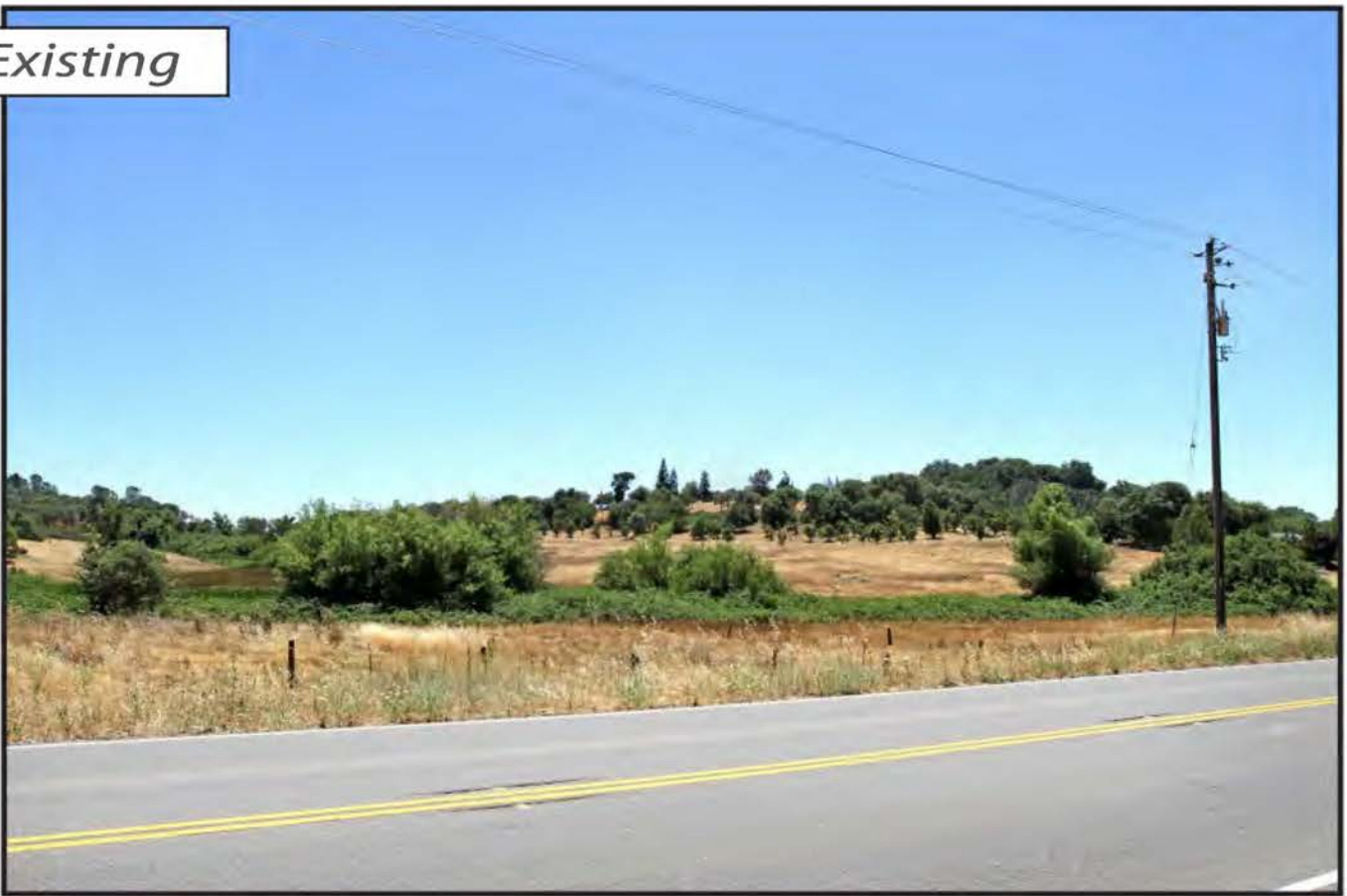
view from Triple Seven Road looking east at site



CVL03175 Pilot Hill 2
3100 Triple Seven Road, Cool, CA
Photosims Produced on 7-21-2017



Existing



Proposed



view from Georgetown Road looking southwest at site



CVL03175 Pilot Hill 2
3100 Triple Seven Road, Cool, CA
Photosims Produced on 7-21-2017



Contact (925) 202-8507

Existing



Proposed



view from Paymaster Trail looking southeast at site



CVL03175 Pilot Hill 2
3100 Triple Seven Road, Cool, CA
Photosims Produced on 7-21-2017



Existing



Proposed



view from Ahwahnee Way looking northwest at site



CVL03175 Pilot Hill 2
3100 Triple Seven Road, Cool, CA
Photosims Produced on 7-21-2017



Sound Specifications:

- Emergency Generator Model: SG035 Generac
 - Average decibel (dBa) level at 23 feet = 64.9 dBa
- HVAC Model: ASDCA48
 - Average decibel (dBa) level at 50 feet = 57 dBa

Sound Specifications while taking the Sound Blanket into consideration:

- Emergency Generator Model: SG035 Generac
 - Average decibel (dBa) level at 23 feet = 58.11 dBa
- HVAC Model: ASDCA48
 - Average decibel (dBa) level at 50 feet = 46.36 dB

Findings:

1. Distance to the Nearest Property Line = 183'+/-
 - a. Generator Decibel level at 183' = 40.1 dBa
 - b. HVAC Decibel level at 183' = 35.09 dBa
2. Distance to the Nearest Residence = 600'+/-
 - a. Generator Decibel level at 600' = 29.78 dBa
 - b. HVAC Decibel level at 600' = 24.78 dBa

Conclusion:

After calculating all decibel levels at each nearby residence’s property line and actual residence, the onsite Emergency Backup Generator and HVAC systems are within El Dorado County’s noise level standards according to El Dorado County Title 130 Zoning and Noise Ordinance, Chapter 130.37 – Noise Standards.

Table 1 – Eldorado County Table 130.37.060.1
Noise Level Performance Standards for Noise Sensitive Land Uses
Affected by Non-Transportation Sources

Noise Level Descriptor	Daytime 7 a.m. – 7 p.m.		Evening 7 p.m. – 10 p.m.		Night 10 p.m. – 7 a.m.	
	Community / Rural Centers	Rural Regions	Community / Rural Centers	Rural Regions	Community / Rural Centers	Rural Regions
Hourly Leq, dBA	55	50	50	45	45	40
Maximum Level, dBA	70	60	60	55	55	50



Radio Frequency Emissions Compliance Report For AT&T Mobility

Site Name: Pilot Hill 2	Site Structure Type: Monopine
Address: 3100 Triple Seven Road Cool, California	Latitude: N38-53-22.80
Report Date: July 22, 2017	Longitude: W120-59-49.80
	Project: New Build

General Summary

AT&T Mobility has contracted Waterford Consultants, LLC to conduct a Radio Frequency Electromagnetic Compliance assessment of the proposed Pilot Hill 2 site located at 3100 Triple Seven Road, Cool, California. This report contains information about the radio telecommunications equipment to be installed at this site and the surrounding environment with regard to RF Hazard compliance. This assessment is based on installation designs and operational parameters provided by AT&T Mobility.

The compliance framework is derived from the Federal Communications Commission (FCC) Rules and Regulations for preventing human exposure in excess of the applicable Maximum Permissible Exposure (“MPE”) limits. At any location at this site, the power density resulting from each transmitter may be expressed as a percentage of the frequency-specific limits and added to determine if 100% of the exposure limit has been exceeded. The FCC Rules define two tiers of permissible exposure differentiated by the situation in which the exposure takes place and/or the status of the individuals who are subject to exposure. General Population / Uncontrolled exposure limits apply to those situations in which persons may not be aware of the presence of electromagnetic energy, where exposure is not employment-related, or where persons cannot exercise control over their exposure. Occupational / Controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment, have been made fully aware of the potential for exposure, and can exercise control over their exposure. Based on the criteria for these classifications, the FCC General Population limit is considered to be a level that is safe for continuous exposure time. The FCC General Population limit is 5 times more restrictive than the Occupational limits.

Frequency (MHz)	Limits for General Population/ Uncontrolled Exposure		Limits for Occupational/ Controlled Exposure	
	Power Density (mW/cm ²)	Averaging Time (minutes)	Power Density (mW/cm ²)	Averaging Time (minutes)
30-300	0.2	30	1	6
300-1500	f/1500	30	f/300	6
1500-100,000	1.0	30	5.0	6

f=Frequency (MHz)

In situations where the predicted MPE exceeds the General Population threshold in an accessible area as a result of emissions from multiple transmitters, FCC licensees that contribute greater than 5% of the aggregate MPE share responsibility for mitigation.

Attachment 6 Site 1 Cool (formerly Pilot Hill 2)

Based on the computational guidelines set forth in FCC OET Bulletin 65, Waterford Consultants, LLC has developed software to predict the overall Maximum Permissible Exposure possible at any particular location given the spatial orientation and operating parameters of multiple RF sources. These theoretical results represent worst-case predictions as emitters are assumed to be operating at 100% duty cycle.

For any area in excess of 100% General Population MPE, access controls with appropriate RF alerting signage must be put in place and maintained to restrict access to authorized personnel. Signage must be posted to be visible upon approach from any direction to provide notification of potential conditions within these areas. Subject to other site security requirements, occupational personnel should be trained in RF safety and equipped with personal protective equipment (e.g. RF personal monitor) designed for safe work in the vicinity of RF emitters. Controls such as physical barriers to entry imposed by locked doors, hatches and ladders or other access control mechanisms may be supplemented by alarms that alert the individual and notify site management of a breach in access control. Waterford Consultants, LLC recommends that any work activity in these designated areas or in front of any transmitting antennas be coordinated with all wireless tenants.

Analysis

AT&T Mobility proposes the following installation at this location:

- Install twelve (12) new antennas
- Install six (6) new RRUS-11
- Install ten (10) new RRUS-32
- Install three (3) new RRUS-12

The antennas will be mounted on a new 122-foot monopine erected for this purpose with centerlines at 100 and 108 feet above ground level. The antennas will be oriented toward 90, 330 and 210 degrees. The Effective Radiated Power (ERP) in any direction from all AT&T Mobility operations will not exceed 26,556 Watts. Other appurtenances such as GPS antennas, RRUs and hybrid cable are not sources of RF emissions. From this site, AT&T Mobility will enhance voice and data services to surrounding areas in licensed 700, 1900, 2100 and 2300 MHz bands. No other antennas are known to be operating in the vicinity of this site.

Power density decreases significantly with distance from any antenna. The panel-type antennas to be employed at this site are highly directional by design and the orientation in azimuth and mounting elevation, as documented, serve to reduce the potential to exceed MPE limits at any location other than directly in front of the antennas. For accessible areas at ground level, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.7985% of the FCC General Population limits (0.1597% of the FCC Occupational limits). Incident at adjacent buildings depicted in Figure 1, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.1425% of the FCC General Population limits (0.0285% of the FCC Occupational limits). The proposed operation will not expose members of the General Public to hazardous levels of RF energy and will not contribute to existing cumulative MPE levels on walkable surfaces at ground or at adjacent buildings by 5% of the General Population limits.

Within the proposed compound surrounding the tower, the maximum predicted power density level resulting from all AT&T Mobility operations is 0.0240% of the FCC Occupational limits (0.1200% of the FCC General Population limits). Waterford Consultants, LLC recommends posting contact information signage at the compound gate. RF alerting signage (Caution) should be posted at the base of the proposed tower to inform authorized climbers of potential conditions near the antennas. These recommendations are depicted in Figure 2.

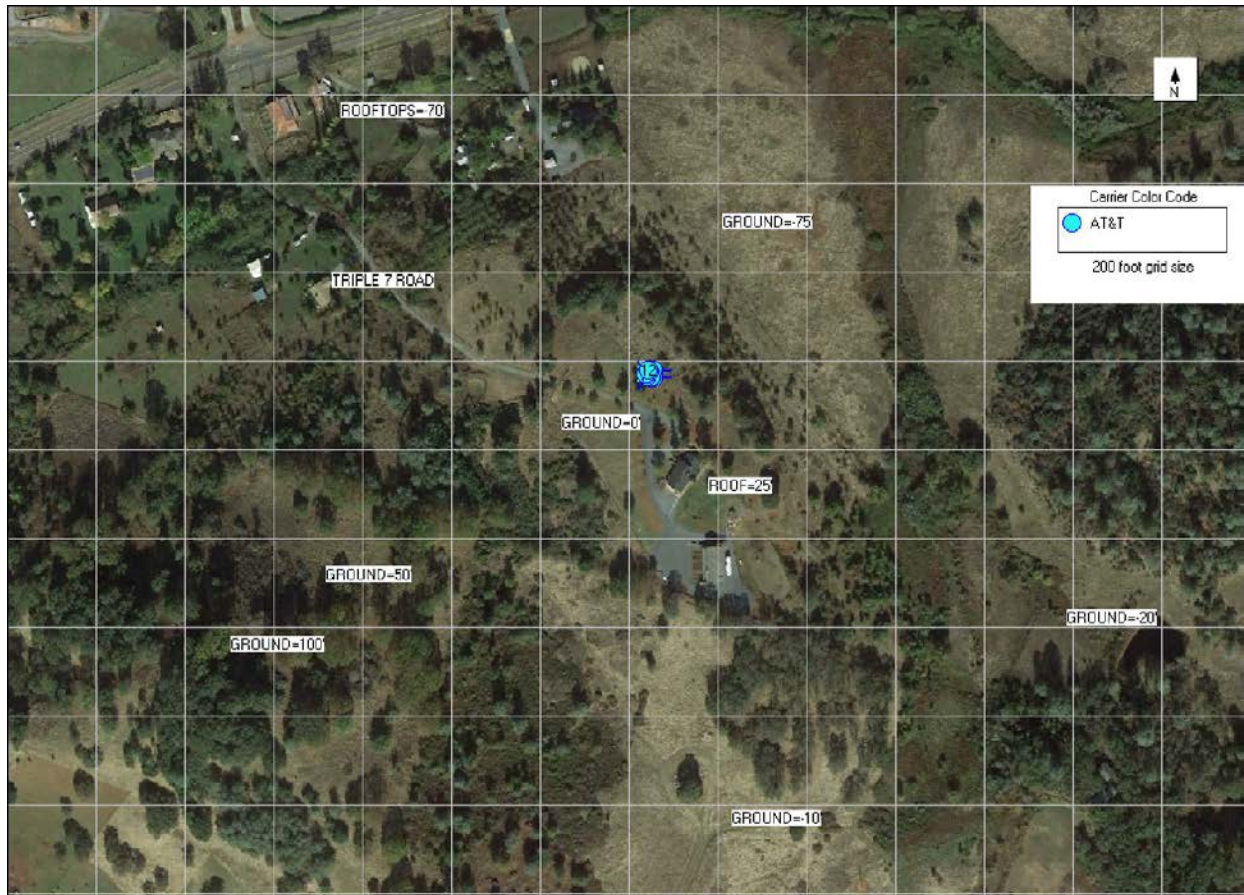


Figure 1: Antenna Locations

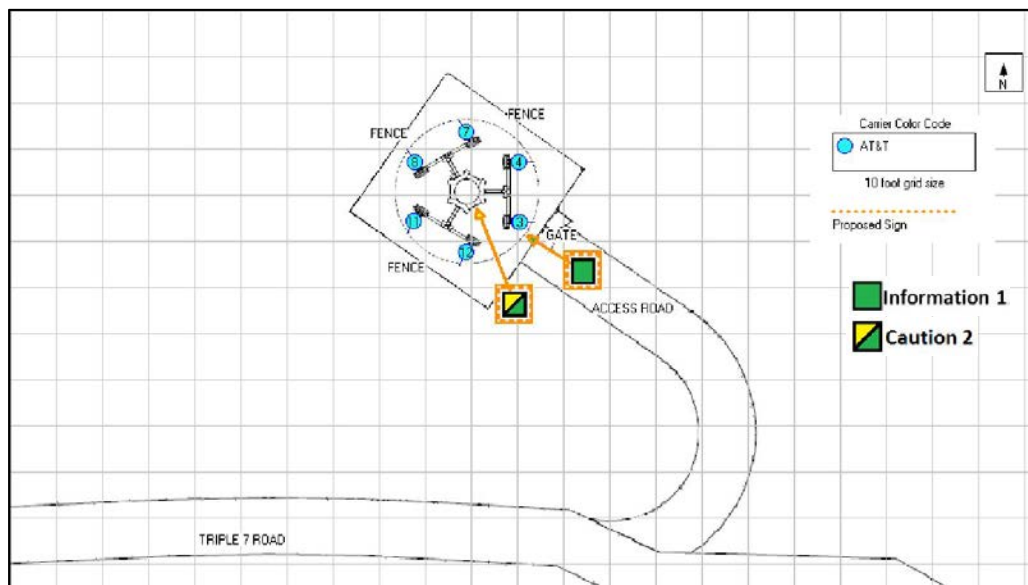


Figure 2: Mitigation Recommendations

Compliance Statement

Based on information provided by AT&T Mobility, predictive modeling and the mitigation action to be implemented by AT&T Mobility, the installation proposed by AT&T Mobility at 3100 Triple Seven Road, Cool, California will be compliant with Radiofrequency Radiation Exposure Limits of 47 C.F.R. § 1.1307(b)(3) and 1.1310. RF alerting signage and restricting access to the tower to authorized climbers that have completed RF safety training is required for Occupational environment compliance.

Certification

I, Steven N. Baier-Anderson, am the reviewer and approver of this report and am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commissions (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation, specifically in accordance with FCC's OET Bulletin 65. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

